

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: February 26, 2002, 11:48:04 : Search time 205.96 seconds
(without alignments)
4645.441 Million cell updates/sec

Title: US-09-602-833A-1
Perfect score: 1116
Sequence: 1 atggagacataaagtgtgtt.....cttagcctcaattga 1116

Scoring table:
OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 930621 seqs, 428662619 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

N.Geneseq_1101.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|-------|-------------|--------|----|-----------|---------------------|
| 1 | 1116 | 100.0 | 1116 | 22 | AAF24902 | Nucleotide sequence |
| 2 | 681 | 61.0 | 681 | 22 | AAF24903 | Nucleotide sequence |
| 3 | 129 | 11.6 | 2056 | 17 | AAH17218 | Human cDNA sequence |
| 4 | 23 | 2.1 | 9789 | 17 | AAI41852 | CDNA encoding Plas |
| 5 | 20 | 1.8 | 1421 | 21 | AAAC46422 | Arabidopsis thailia |
| 6 | 20 | 1.8 | 1422 | 21 | AAAC36467 | Arabidopsis thailia |
| 7 | 19 | 1.7 | 327 | 21 | AAAC00689 | Human secreted pro |
| 8 | 19 | 1.7 | 413 | 21 | AAAC06478 | Human secreted pro |
| 9 | 19 | 1.7 | 1185 | 16 | AAAT03478 | Transcription fact |
| 10 | 19 | 1.7 | 1816 | 21 | AAAT78156 | Human cancer assoc |
| 11 | 19 | 1.7 | 3072 | 21 | AAAT75580 | DNA encoding a mou |

| | | | | | | |
|----|----|-----|---------|----|-----------|---------------------|
| 12 | 18 | 1.6 | 811 | 19 | AAAI3947 | H. pylori GHPD 127 |
| 13 | 18 | 1.6 | 1981 | 18 | AAAT66241 | Romaine lettuce vi |
| 14 | 18 | 1.6 | 2324 | 22 | AAAT10125 | Mouise serotransfer |
| 15 | 18 | 1.6 | 3997 | 19 | AAAT26082 | Tomato pest resist |
| 16 | 18 | 1.6 | 4118 | 17 | AAAT44520 | NTBI hXuc + hXub 9 |
| 17 | 18 | 1.6 | 4566 | 19 | AAAT41550 | Nucleotide sequenc |
| 18 | 18 | 1.6 | 4566 | 18 | AAAX01089 | Human G-protein co |
| 19 | 18 | 1.6 | 4568 | 18 | AAAT44039 | Human G-protein re |
| 20 | 18 | 1.6 | 4568 | 18 | AAAT44039 | Human G-protein co |
| 21 | 18 | 1.6 | 6253 | 20 | AAAI3097 | Enterococcus faeca |
| 22 | 18 | 1.6 | 11648 | 22 | AAAD08065 | Human extracellular |
| 23 | 18 | 1.6 | 51952 | 19 | AAAT26084 | Tomato pest resist |
| 24 | 18 | 1.6 | 68940 | 20 | AAAT57351 | Human chromosome 6 |
| 25 | 18 | 1.5 | 1038602 | 20 | AAAT01425 | Complete genome se |
| 26 | 17 | 1.5 | 156 | 22 | AAAT19482 | Probe #9415 for ge |
| 27 | 17 | 1.5 | 156 | 22 | AAAT20472 | Probe #10405 for g |
| 28 | 17 | 1.5 | 156 | 22 | AAAT46677 | Probe #13363 used |
| 29 | 17 | 1.5 | 156 | 22 | AAAT45679 | Probe #14365 used |
| 30 | 17 | 1.5 | 156 | 22 | AAAT05210 | Probe #5201 used t |
| 31 | 17 | 1.5 | 156 | 22 | AAAT06170 | Probe #6161 used t |
| 32 | 17 | 1.5 | 166 | 21 | AAAT17102 | Human secreted exp |
| 33 | 17 | 1.5 | 179 | 21 | AAAT17644 | Human secreted pro |
| 34 | 17 | 1.5 | 243 | 21 | AAAT17113 | Human secreted pro |
| 35 | 17 | 1.5 | 291 | 21 | AAAT08533 | Fusarium venenatum |
| 36 | 17 | 1.5 | 296 | 18 | AAAT78820 | Staphylococcus aur |
| 37 | 17 | 1.5 | 390 | 21 | AAAT67203 | Pinus radiata alph |
| 38 | 17 | 1.5 | 418 | 21 | AAAT67201 | Pinus radiata alph |
| 39 | 17 | 1.5 | 441 | 21 | AAAT67198 | Pinus radiata alph |
| 40 | 17 | 1.5 | 443 | 22 | AAAT35681 | Human colon cancer |
| 41 | 17 | 1.5 | 460 | 22 | AAAT15848 | Probe #5781 for ge |
| 42 | 17 | 1.5 | 460 | 22 | AAAT37733 | Probe #6419 used t |
| 43 | 17 | 1.5 | 476 | 22 | AAAT16028 | Probe #5961 for ge |
| 44 | 17 | 1.5 | 476 | 22 | AAAT38141 | Probe #6827 used t |
| 45 | 17 | 1.5 | 479 | 22 | AAAT10199 | Probe #132 for gen |

ALIGNMENTS

| | |
|----------|---|
| RESULT 1 | |
| ID | AAF24902 standard; cDNA; 1116 bp. |
| XX | AAF24902: |
| AC | AAF24902: |
| XX | |
| DT | 20-APR-2001 (first entry) |
| XX | |
| DE | Nucleotide sequence of a human SGT4-1 polypeptide. |
| XX | |
| KW | Human; SGT4, signal transduction; guanosine triphosphate binding protein; |
| KW | GTP binding protein; cancer; immune response; nutritional source; |
| KW | animal feed; ss. |
| XX | |
| OS | Homo sapiens. |
| XX | |
| FH | Key |
| FT | CDS |
| FT | Location/Qualifiers |
| FT | 1..1116 |
| FT | /*tag= a |
| FT | /product= "SGT4" |
| PN | MO200078959-A1. |
| XX | |
| PD | 28-DEC-2000. |
| XX | |
| PF | 22-JUN-2000; 2000MO-US17248. |
| XX | |
| PR | 23-JUN-1999; 99US-0140627. |
| XX | |
| PA | (LEXI-) LEXICON GENETICS INC. |
| XX | |
| PI | Turner AC, Zambrowicz B, Nehls M, Friedrich GA, Sands AT; |
| XX | |
| DR | WPI; 2001-032329/04. |

PT disorders involving inappropriate regulation of a signal transduction
 PT mechanism e.g. cancer -
 XX
 PS Claim 1; Fig 3; 82pp; English.
 XX
 CC The present sequence encodes a human SGT4 polypeptide. SGT4 polypeptides
 CC are involved in signal transduction pathways regulated by guanosine
 CC triphosphate (GTP) binding proteins). SGT4 polynucleotides and
 CC polypeptides are for diagnosing and treating conditions related to a
 CC signal transduction mechanism involving SGT4 such as cancer. In
 CC addition, it can be used to detect the expression of SGT4 as markers of
 CC specific cells and tissues such as neuronal tissue, heart, liver,
 CC pancreas and adrenal gland. They are also useful for the construction of
 CC transgenic and knockout animals for studying SGT4 function in vivo and
 CC for the screening of SGT4 (ant)agonists in an animal model. Other more
 CC general uses include: as molecular weight markers on Southern gels; as
 CC chromosome markers or tags; as probes; for selecting and making
 CC oligomers for attachment to a gene chip; to raise anti-protein or
 CC anti-DNA antibodies or to elicit immune response. They are also
 CC also be used as nutritional sources or supplements such as in animal
 CC feed.
 CC
 XX
 SQ Sequence 681 BP; 212 A; 138 C; 142 G; 189 T; 0 other;

Query Match 61.0%; Score 681; DB 22; Length 681;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 681; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 436 atgagaattctgactctgcacaaacaaatcacaatctccagcagaatcggtgt 495
 DB 1 atgagaattctgactctgcacaaacaaatcacaatctccagcagaatcggtgt 60
 QY 496 ttgaagaacctgaagaactcaatctggtttcaactatctgaagagcattcctcaga 555
 DB 61 ttgaagaacctgaagaactcaatctggtttcaactatctgaagagcattcctcaga 120
 QY 556 ttggagagattgtaaaatctagagagagatggtcttggaatctagagatattgag 615
 DB 121 ttggagagattgtaaaatctagagagagatggtcttggaatctagagatattgag 180
 QY 616 ctgaccttgaattgaatttgaagcaagtacattctgtagatatactagcaaaag 675
 DB 181 ctgaccttgaattgaatttgaagcaagtacattctgtagatatactagcaaaag 240
 QY 676 ttttccagttcccaatctgtctcgtcggaatctgcaattgcaagtgttgatatac 735
 DB 241 ttttccagttcccaatctgtctcgtcggaatctgcaattgcaagtgttgatatac 300
 QY 736 agcaataacctgacccgacccgcgcaagatatagacagcttagagagcgcgagagctt 795
 DB 301 agcaataacctgacccgacccgcgcaagatatagacagcttagagagcgcgagagctt 360
 QY 796 ctcttgtataaaacaagtgtgacctaccctccattccatctgctgaacccctgaagagctc 855
 DB 361 ctcttgtataaaacaagtgtgacctaccctccattccatctgctgaacccctgaagagctc 420
 QY 856 acctctgtagctgctgagtgaggagaccattgttgaggtcccaactgaccttggactca 915
 DB 421 acctctgtagctgctgagtgaggagaccattgttgaggtcccaactgaccttggactca 480
 QY 916 tccacaccttaaaatttgaagccttatgacaatcctattgtaatagtcccaattgga 975
 DB 481 tccacaccttaaaatttgaagccttatgacaatcctattgtaatagtcccaattgga 540
 QY 976 gatggcaatgaataatgaaagtgaacggagatcccaacatttgaataagaagtatg 1035
 DB 541 gatggcaatgaataatgaaagtgaacggagatcccaacatttgaataagaagtatg 600
 QY 1036 aagaccatattgaagccttaagaagaagaatctgttcccgctataccaccaagt 1095
 DB 601 aagaccatattgaagccttaagaagaagaatctgttcccgctataccaccaagt 660

QY 1096 tctttagccttaactttga 1116
 DB 661 tctttagccttaactttga 681

RESULT 3
 AAH17218
 ID AAH17218 standard; cDNA; 2056 BP.
 AC AAH17218;
 XX
 DT 26-JUN-2001 (first entry)
 XX
 DE Human cDNA sequence SEQ ID NO:16594.
 KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 XX Homo sapiens.
 XX EP1074617-A2.
 PN
 XX
 PD 07-FEB-2001.
 XX
 PF 28-JUL-2000; 2000EP-0116126.
 XX
 PR 28-JUL-1999; 99JP-0248036.
 PR 27-AUG-1999; 99JP-0300253.
 PR 11-JAN-2000; 2000JP-0118776.
 PR 02-MAY-2000; 2000JP-0183767.
 PR 09-JUN-2000; 2000JP-0241899.
 XX

PA (HELI-) HELIX RES INST.

XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 XX
 DR WPI; 2001-318749/34.
 XX

PT Primer sets for synthesizing polynucleotides, particularly the 5602
 PT full-length cDNAs defined in the specification, and for the detection
 PT and/or diagnosis of the abnormality of the proteins encoded by the
 PT full-length cDNAs -
 XX
 PS Claim 8; SEQ ID 16594; 2537pp + CD ROM; English.

CC The present invention describes primer sets for synthesizing 5602
 CC full-length cDNAs defined in the specification. Where a primer set
 CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
 CC to the complementary strand of a polynucleotide which comprises one of
 CC the 5602 nucleotide sequences defined in the specification, where the
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 CC of an oligonucleotide comprising a sequence complementary to the
 CC complementary strand of a polynucleotide which comprises a 5'-end
 CC sequence and an oligonucleotide comprising a sequence complementary to a
 CC polynucleotide which comprises a 3'-end sequence, where the
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence/3'-end sequence is selected from those defined in
 CC the specification. The primer sets can be used in antisense therapy and
 CC in gene therapy. The primers are useful for synthesizing polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
 CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
 CC AAB93893 represent human amino acid sequences; and AAH13629 to AAH13632
 CC represent oligonucleotides, all of which are used in the exemplification
 CC of the present invention.
 XX
 SQ Sequence 2056 BP; 642 A; 394 C; 495 G; 525 T; 0 other;

Query Match 11.6%; Score 129; DB 22; Length 2056;
 Best Local Similarity 100.0%; Pred. No. 2; 2e-55;

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Matches 129; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 988 ataatggaagtgaaagcgatcgccaacatttgtaataagaagttatgaagcctatat 1047
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Db 1294 ataatggaagtgaaagcgatcgccaacatttgtaataagaagttatgaagcctatat 1353
QY 1048 gaagacctaagaagaagaatctgttccagctatacacaagaatgtctttgacctt 1107
    |||||
Db 1354 gaagacctaagaagaagaatctgttccagctatacacaagaatgtctttgacctt 1413
QY 1108 caacttga 1116
    |||||
Db 1414 caacttga 1422

RESULT 4
AAT41852
ID AAT41852 standard; DNA; 9789 BP.
AC AAT41852;
XX
XX 20-FEB-1997 (first entry)
DE cDNA encoding Plasmodium falciparum erythrocyte membrane protein.
XX
XX Plasmodium falciparum; erythrocyte membrane protein; malaria;
KW detection; identification; treatment; prevention; parasite; ss.
XX
XX Plasmodium falciparum MC type.
XX
XX Key
XX CDS
XX 326..9497
    /tag= a
    /product= Erythrocyte membrane protein
    518..520
    /tag= b
    /transl_except= GTA encodes Tyrosine
    656..658
    /tag= c
    /transl_except= ATT encodes Leucine
    2909..2911
    /tag= d
    /transl_except= AAC encodes Aspartic acid
    3461..3463
    /tag= e
    /transl_except= GAA encodes Glutamine
    5546..5548
    /tag= f
    /transl_except= CCT encodes Arginine
    6254..6256
    /tag= g
    /transl_except= AAT encodes Lysine
    6257..6259
    /tag= h
    /transl_except= ATA encodes Tyrosine
    6263..6265
    /tag= i
    /transl_except= AAC encodes Lysine
    6269..6271
    /tag= j
    /transl_except= TTC encodes Isoleucine
    6272..6274
    /tag= k
    /transl_except= ATA encodes Histidine
    6275..6277
    /tag= l
    /transl_except= ATT encodes Asparagine
    6278..6280
    /tag= m
    /transl_except= GGA encodes Tryptophan
    7754..8478
    /tag= n
    3

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PN W09633736-A1.
XX
XX 31-OCT-1996.
XX
XX 26-APR-1996; 96WO-US05798.
XX
XX 27-APR-1995; 95US-0430908.
XX
XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
XX
XX Baruch DI, Howard RJ, Pasloske BL;
XX
XX WPI: 1996-497376/49.
XX P-PSDB: AAW00384.
XX
XX New Plasmodium falciparum erythrocyte membrane proteins - used to
XX develop products for the diagnosis, treatment or prevention of
XX malaria parasite infections
XX
XX Disclosure: Figure 12; 149pp; English.
XX
XX A polypeptide comprising a Plasmodium falciparum (Pf) erythrocyte
XX membrane protein 1 (PfEMP1) or active fragments or analogues of that
XX protein can be used in the treatment or prevention of symptoms of a
XX malaria parasite infection. The polypeptides can inhibit, block or
XX reverse the sequestration of erythrocytes in patients suffering from
XX malaria. Nucleic acids derived from the PfEMP1 gene can be used as
XX probes and primers to identify a Plasmodium falciparum parasite, the
XX primers used to generate characteristic amplification patterns from
XX different P. falciparum strains. Antibodies specifically
XX immunoreactive with the PfEMP1 polypeptide or its fragments may be
XX used in diagnosis of malaria infection. This sequence encodes the
XX PfEMP1 protein of the MC type of Plasmodium falciparum. An
XX alternative, truncated version of the coding sequence (a cDNA clone)
XX is given in AAT41853.
XX
XX Sequence 9789 BP; 4061 A; 1393 C; 1837 G; 2498 T; 0 other;
XX
XX Query Match 2.1%; Score 23; DB 17; Length 9789;
XX Best Local Similarity 100.0%; Pred. No. 0.13;
XX Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 118 ttgghgagacataagagagagtg 140
    |||||
Db 3902 ttggaagaataagaagagagtg 3924
23

RESULT 5
AAC46422/c
ID AAC46422 standard; DNA; 1421 BP.
XX
XX AAC46422;
XX
XX 18-OCT-2000 (first entry)
XX
XX Arabidopsis thaliana DNA fragment SEQ ID NO: 50080.
DE
XX
XX Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
XX Arabidopsis thaliana.
OS
XX
XX EP1033405-A2.
XX
XX 06-SEP-2000.
XX
XX 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
XX 05-MAR-1999; 99US-0123180.
XX 09-MAR-1999; 99US-0123548.
XX

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| PR 23-MAR-1999; | 99US-0125788. |
| PR 25-MAR-1999; | 99US-0126264. |
| PR 29-MAR-1999; | 99US-0126785. |
| PR 01-APR-1999; | 99US-0127462. |
| PR 06-APR-1999; | 99US-0128234. |
| PR 08-APR-1999; | 99US-0128714. |
| PR 16-APR-1999; | 99US-0129845. |
| PR 19-APR-1999; | 99US-0130077. |
| PR 21-APR-1999; | 99US-0130449. |
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| PR 30-APR-1999; | 99US-0132048. |
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| PR 04-MAY-1999; | 99US-0132484. |
| PR 05-MAY-1999; | 99US-0132485. |
| PR 06-MAY-1999; | 99US-0132486. |
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| PR 07-MAY-1999; | 99US-0132863. |
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| PR 24-MAY-1999; | 99US-0135629. |
| PR 25-MAY-1999; | 99US-0136021. |
| PR 27-MAY-1999; | 99US-0136021. |
| PR 28-MAY-1999; | 99US-0136392. |
| PR 01-JUN-1999; | 99US-0137222. |
| PR 03-JUN-1999; | 99US-0137528. |
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| PR 07-JUN-1999; | 99US-0137724. |
| PR 08-JUN-1999; | 99US-0138094. |
| PR 10-JUN-1999; | 99US-0138540. |
| PR 10-JUN-1999; | 99US-0138847. |
| PR 14-JUN-1999; | 99US-0139119. |
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| PR 17-JUN-1999; | 99US-0139454. |
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| PR 18-JUN-1999; | 99US-0139458. |
| PR 18-JUN-1999; | 99US-0139459. |
| PR 18-JUN-1999; | 99US-0139460. |
| PR 18-JUN-1999; | 99US-0139461. |
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| PR 18-JUN-1999; | 99US-0139750. |
| PR 18-JUN-1999; | 99US-0139763. |
| PR 21-JUN-1999; | 99US-0139817. |
| PR 22-JUN-1999; | 99US-0139899. |
| PR 23-JUN-1999; | 99US-0140353. |
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| PR 28-JUN-1999; | 99US-0140823. |
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| PR 06-JUL-1999; | 99US-0142055. |
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| PR 09-AUG-1999; | 99US-0147416. |
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| PR 13-AUG-1999; | 99US-0148684. |
| PR 16-AUG-1999; | 99US-0149368. |
| PR 17-AUG-1999; | 99US-0149175. |
| PR 18-AUG-1999; | 99US-0149426. |
| PR 20-AUG-1999; | 99US-0149722. |
| PR 20-AUG-1999; | 99US-0149723. |
| PR 20-AUG-1999; | 99US-0149929. |
| PR 23-AUG-1999; | 99US-0149902. |
| PR 25-AUG-1999; | 99US-0149930. |
| PR 26-AUG-1999; | 99US-0150566. |
| PR 27-AUG-1999; | 99US-0150884. |
| PR 27-AUG-1999; | 99US-0151065. |
| PR 27-AUG-1999; | 99US-0151066. |
| PR 30-AUG-1999; | 99US-0151080. |
| PR 31-AUG-1999; | 99US-0151303. |
| PR 01-SEP-1999; | 99US-0151438. |
| PR 07-SEP-1999; | 99US-0151930. |
| PR 10-SEP-1999; | 99US-0152363. |
| PR 13-SEP-1999; | 99US-0153070. |
| PR 15-SEP-1999; | 99US-0153758. |
| PR 16-SEP-1999; | 99US-0154018. |
| PR 20-SEP-1999; | 99US-0154039. |
| PR 22-SEP-1999; | 99US-0154779. |
| PR 23-SEP-1999; | 99US-0155139. |
| PR 24-SEP-1999; | 99US-0155486. |
| PR 28-SEP-1999; | 99US-0155659. |
| PR 29-SEP-1999; | 99US-0156458. |
| PR 04-OCT-1999; | 99US-0157117. |
| PR 05-OCT-1999; | 99US-0157753. |
| PR 06-OCT-1999; | 99US-0157865. |

PR 07-OCT-1999; 99US-0156029.
PR 08-OCT-1999; 99US-0156232.
PR 12-OCT-1999; 99US-0156369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159337.
PR 14-OCT-1999; 99US-0159368.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 1.8%; Score 20; DB 21; Length 1421;
Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 410 ctacatatattcagttatt 429
|||||
Db 1343 CTACATATTTCAGTTATT 1324

RESULT 6
AAC36467/c
ID AAC36467 standard; DNA; 1422 BP.

XX AAC36467;

DT 17-OCT-2000 (first entry)

DE Arabidopsis thaliana DNA fragment SEQ ID NO: 13915.

XX Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.

XX Arabidopsis thaliana.

XX EP1033405-A2.

XX 06-SEP-2000.

PF 25-FEB-2000; 2000EP-0301439.

XX 25-FEB-1999; 99US-0121825.

PR 05-MAR-1999; 99US-0123180.

PR 09-MAR-1999; 99US-0123548.

PR 23-MAR-1999; 99US-0125788.

PR 25-MAR-1999; 99US-0126264.

PR 29-MAR-1999; 99US-0126785.

PR 01-APR-1999; 99US-0127462.

PR 06-APR-1999; 99US-0128234.

PR 08-APR-1999; 99US-0128714.

PR 16-APR-1999; 99US-0129845.

PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132485.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0132563.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138840.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 17-JUN-1999; 99US-0139453.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.

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PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145813.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.

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PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
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PR 21-OCT-1999; 99US-0160770.
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PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 1.8%; Score 20; DB 21; Length 1422;
Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 ctacatattcagttatt 429
Db 1342 CTACATATTTCAGTTATT 1323
|||||
|||||

RESULT 7
AAC00689
ID AAC00689 standard; cDNA; 327 BP.
XX
AC AAC00689;
XX
XX 06-OCT-2000 (first entry)
XX
XX Human secreted protein 5' EST, SEQ ID NO: 687.
DE
XX
XX Human: 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping; ss.
XX
XX Homo sapiens.
OS
XX
XX EP1033401-A2.
PN
XX
XX 06-SEP-2000.
PD
XX
XX 21-FEB-2000; 2000EP-0200610.
PF
XX
XX 26-FEB-1999; 99US-0122487.
PR
XX
XX (GEST ) GENSET.
PA
XX
XX Dumas Malne Edwards J, Duclert A, Giordano J;
PI
XX
XX WPI: 2000-500381/45.
DR P-PSDB; AAC00683.
DR
XX
XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
XX
XX Claim 1; SEQ ID 687; 71pp + CD-ROM; English.
XX
XX The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. An ORF has been identified within the
CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs

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CC derived from 30 different tissues. EST sequences usually correspond
 CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
 CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
 CC well suited for isolating cDNA sequences derived from the 5' ends of
 CC mRNAs and even in those cases where longer cDNA sequences have been
 CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
 CC mRNAs with intact 5' ends and can therefore be used to obtain full length
 CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
 CC gene therapy and chromosome mapping procedures. They are used to obtain
 CC upstream regulatory sequences and to design expression and secretion
 CC vectors.

SQ Sequence 327 BP; 121 A; 48 C; 85 G; 73 T; 0 other;

Query Match 1.7%; Score 19; DB 21; Length 327;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 497 tgaagaacctgaagaact 515
 ||||||||||||||||
 DB 88 tgaagaacctgaagaact 106

RESULT 8

AAC06478
 ID AAC06478 standard; cDNA; 413 BP.

AC AAC06478;

DT 06-OCT-2000 (first entry)

DE Human secreted protein 5' EST, SEQ ID NO: 10553.

XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
 KW gene therapy; chromosome mapping; ss.

OS Homo sapiens.

XX EPI033401-A2.

PD 06-SEP-2000.

XX 21-FEB-2000; 2000EP-0200610.

XX 26-FEB-1999; 99US-0122487.

XX (GEST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI: 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
 XX Claim 1; SEQ ID 10553; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences
 CC derived from the 5' ends of mRNAs and even in those cases where longer
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
 CC They are used to obtain upstream regulatory sequences and to design
 CC expression and secretion vectors.

XX SQ Sequence 413 BP; 138 A; 76 C; 103 G; 95 T; 1 other;

Query Match 1.7%; Score 19; DB 21; Length 413;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 497 tgaagaacctgaagaact 515
 ||||||||||||||||
 DB 173 tgaagaacctgaagaact 191

RESULT 9

AAT03478
 ID AAT03478 standard; DNA; 1185 BP.

AC AAT03478;

DT 06-JUN-1996 (first entry)

DE Transcription factor BTF2 complex p44 subunit gene.

XX Transcription factor; BTF2; subunit; kinase; ATPase; helicase; Hela; PCR;
 KW reconstruction; in vitro transcription system; probe; primer; antibody;
 KW amplification; microsequence; cancer; skin melanoma; xeroderma; UV light;
 KW Cockayne syndrome; skin pigmentation disorder; sensitivity; ss.

OS Homo sapiens.

XX WO9529245-A2.

XX 02-NOV-1995.

XX 25-APR-1995; 95WO-FR00540.

XX 25-APR-1994; 94FR-0004937.

XX (ASRE-) ASSOC DEV RECH & GENETIQUE MOLECULAIRE.

XX Egly J, Humbert S, Moncollin V;

XX WPI: 1995-382993/49.

XX P-FSDB; AAR88225.

XX New protein sub-unit(s) of transcription factor BTF2 - useful for
 PT treating or diagnosing deficiencies in DNA repair processes

XX Claim 1; Fig 2; 16pp; French.

XX This is the nucleotide sequence of the transcription factor BTF2 p44
 CC subunit gene. The sequence encodes a protein of 395 amino acids.
 CC The genes for the p34 (AAT03477) and p44 subunits were isolated from a
 CC Hela DNA library in lambda-ZAPII using oligonucleotide probes and
 CC primers based on microsequencing of the purified subunits (e.g.
 CC AAT03479-80). Neither the p34 nor the p44 subunits contain any kinase,
 CC ATPase or helicase activity and cannot be used to reconstitute BTF2
 CC actively even with the p62 and p89 BTF2 subunits in an in vitro
 CC transcription system. The proteins can be used to raise antibodies useful
 CC for detecting abnormally low levels of the subunits. The DNA sequences
 CC can be used similarly for DNA levels. The antibodies and probes are
 CC useful in the detection of development of cancer, partic. skin melanoma
 CC but also xeroderma or Cockayne syndrome, skin pigmentation disorders or
 CC sensitivity to UV light.

SQ Sequence 1185 BP; 356 A; 220 C; 255 G; 354 T; 0 other;

Query Match 1.7%; Score 19; DB 16; Length 1185;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 497 tgaagaacctgaagaact 515

Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 970 tgtgaagatgcaatgaa 988
|||||
Db 1257 tgtgaagatgcaatgaa 1275

RESULT 12

AA13947
ID AA13947 standard; DNA; 811 BP.

XX AA13947;

DT 31-MAR-1999 (first entry)

DE H. pylori GHPO 1275 gene.

KW GHPO protein; Helicobacter infection; gastroduodenal disease; gastritis;
peptic ulcer disease; SS.

XX Helicobacter pylori.

FT CDS Key Location/Qualifiers
51..764
/*tag= a

XX MO9843478-A1.

PD 08-OCT-1998.

PE 01-APR-1998; 98WO-US06371.

PR 29-JUL-1997; 97US-0902615.

PR 01-APR-1997; 97US-0833457.

PR 24-JUN-1997; 97US-0881227.

XX (HUMA-) HUMAN GENOME SCI INC.

PA (JNMR) MERIEUX ORAVAX PASTEUR MERIEUX SERONS.

PI Al-Garawi A, Kleantous H, Miller C, Oomen RP, Tomb J;

XX WPI: 1998-542293/46.

DR P-PSDB: AAW98228.

XX New isolated Helicobacter polynucleotides - used to develop products
for the diagnosis, prevention and treatment of Helicobacter
infections and gastrointestinal diseases

PS Claim 1; Page 164-165; 2054pp; English.

XX This sequence represents a polynucleotide of the invention. It was
isolated from Helicobacter pylori and encodes a H.pylori GHPO protein.
The polypeptides can be used for preventing or treating Helicobacter
infections, and gastroduodenal diseases associated with these
infections, including acute, chronic, and atrophic gastritis, and peptic
ulcer diseases, e.g. gastric and duodenal ulcers. They can also be used
for the production of antibodies. The products can also be used for
detection and diagnosis.

XX Sequence 811 BP; 253 A; 146 C; 187 G; 225 T; 0 other;

Query Match 1.6%; Score 18; DB 19; Length 811;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 915 atccacaccttaaat 932
|||||
Db 729 atccacaccttaaat 746

RESULT 13

AAT66241
ID AAT66241 standard; cDNA; 1981 BP.

XX AAT66241;

DT 28-JUL-1997 (first entry)

DE Romaine lettuce violaxanthin de-epoxidase cDNA.

XX Violaxanthin de-epoxidase; VDE; light; photosensitivity;
photoprotection; transgenic plant; zeaxanthin; antheraxanthin;

KW xanthophyll; lettuce; SS.

XX Lactuca sativa L. cv. romaine.

OS Key Location/Qualifiers

FT misc_difference 26..29 /*tag= a

FT /*note= "bases 26-29 are illegible in Fig 1"

FT misc_difference 66..72 /*tag= b

FT /*note= "bases 66-72 are illegible in Fig 1"

FT misc_difference 105..110 /*tag= c

FT /*note= "bases 105-110 are illegible in Fig 1"

FT misc_difference 147..149 /*tag= d

FT /*note= "bases 147-149 are illegible in Fig 1"

FT misc_difference 186..189 /*tag= e

FT /*note= "bases 186-189 are illegible in Fig 1"

FT misc_difference 226..227 /*tag= f

FT /*note= "bases 226-227 are illegible in Fig 1"

FT CDS 235..1656 /*tag= g

FT transit_peptide 235..609 /*tag= h

FT mat_peptide 610..1653 /*tag= i

XX WO9717447-A2.

PD 15-MAY-1997.

PE 07-NOV-1996; 96WO-US18291.

PR 06-AUG-1996; 96US-0023502.

PR 07-NOV-1995; 95US-0006315.

XX (CALJ) CALGENE INC.

PI Bugos RC, Rockholm DC, Yamamoto HY;

XX WPI: 1997-281036/25.

DR P-PSDB: AAW09874.

XX DNA encoding plant violaxanthin de-epoxidase - used to modify the
sensitivity of a plant to light

PS Claim 3; Fig 1; 41pp; English.

XX A cDNA clone (AAT66241) codes for the 55 kDa violaxanthin de-epoxidase
(VDE) (AAW09874) of romaine lettuce. VDE was purified from romaine
lettuce chloroplasts and 2 tryptic peptides were used to develop
primers (see also AAT66244-45), which amplified a partial VDE
sequence. The amplified sequence was then used to screen a lettuce
cDNA library, and the 1981 bp DNA sequence was identified. VDE
nucleic acids (see also AAT66242-43), in sense or antisense
orientation, can be used in genetic constructs, pref. also contg. a
plastid translocation sequence, to modify VDE levels in plants.
Increased levels result in the plant being tolerant of increased
light and therefore more productive and/or more resistant to

CC disease. Underexpression of VDE increases photosynthetic
 CC efficiency under low light. The photosensitivity of a range of
 CC crops, trees and ornamentals can be modified.
 XX
 SQ Sequence 1981 BP; 608 A; 337 C; 433 G; 577 T; 26 other;

Query Match 1.6%; Score 18; DB 18; Length 1981;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 93 ggtggaagcgttgagaa 110
 |||||
 Db 1371 ggtggaagcgttgagaa 1388

RESULT 14
 AAD10125/C
 ID AAD10125 standard; CDNA; 2324 BP.

XX
 AC AAD10125;
 XX
 DT 12-SEP-2001 (first entry)
 XX
 DE Mouse serotransferrin (siderophilin) cDNA.

XX Mouse; cytosolic; antiinflammatory; immunoregulatory; tissue integrity;
 KW wound healing; immune response; vaccine; cancer; asthma; allergy;
 KW cell trafficking; therapy; secreted protein; serotransferrin;
 KW siderophilin; Tf; beta-1-metal binding globulin; transferrin; ss.

XX Mus sp.
 OS
 XX
 FH Key Location/Qualifiers
 FT CDS 43..2136
 FT /*tag= a
 FT /product= "Mouse serotransferrin (siderophilin)"

XX WO200148192-A1.

XX 05-JUL-2001.

XX 21-DEC-2000; 2000WO-N200256.

XX 23-DEC-1999; 99US-0171678.

XX 28-NOV-2000; 2000US-0724864.

XX (GENE-) GENESIS RES & DEV CORP LTD.

XX Watson JD, Murison JG;

XX WPI: 2001-425665/45.

XX P-PSDB: AAE05358.

XX Novel isolated polypeptide useful to isolate corresponding interacting
 PT proteins or other compounds, to quantitatively determine levels of
 PT interacting proteins or other compounds, and as therapeutic target -
 XX
 PS Claim 1; Page 61-62; 101pp; English.

XX The patent discloses novel polynucleotides and their corresponding
 CC proteins which play a major role in induction of growth, cell migration
 CC and proliferation, cell-cell interaction and the differentiation of
 CC tissue-specific cells. These proteins are important in the maintenance
 CC of tissue integrity and thus are important in wound healing. They are
 CC useful in various assays to determine the biological activity, to raise
 CC antibodies, to isolate corresponding interacting proteins or other
 CC compounds, to quantitatively determine levels of interacting proteins or
 CC other compounds, and as therapeutic target in a whole range of disease
 CC states. Compositions comprising the novel proteins of the invention are
 CC useful for treating mammalian disorders. Polynucleotides of the invention
 CC are useful in genome and physical mapping, in positional cloning of
 CC genes, to tag or identify an organism or its reproductive material (as

CC non-disruptive tags for marking organisms), and for the diagnosis and
 CC treatment of mammalian diseases which is the consequence of inappropriate
 CC expression of kinase genes. They are useful for promoting immune response
 CC as part of a vaccine or anti-cancer treatment, as target for cancer
 CC treatment, as immunoregulatory and anti-inflammatory molecule, as
 CC diagnostic for specific types of cancer and for development of an
 CC anti-cancer treatment, and as a target for antagonists in the treatment
 CC of diseases such as asthma and allergy. They are also useful to inhibit
 CC or enhance the activity of the soluble molecule that binds proteins of
 CC the invention, for tissue and neural regeneration, to promote or block
 CC cell trafficking, and as anti-inflammatory and/or vaccine adjuvant.
 CC The present sequence is a cDNA encoding mouse serotransferrin
 CC (siderophilin). Serotransferrin (Tf) also known as beta-1-metal
 CC binding globulin is a part of the transferrin family.
 XX

SQ Sequence 2324 BP; 592 A; 585 C; 627 G; 520 T; 0 other;

Query Match 1.6%; Score 18; DB 22; Length 2324;
 Best Local Similarity 100.0%; Pred. No. 44;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 tccaattgcagtgtg 726
 |||||
 Db 1538 TCGAATTGCGAGTGCTG 1521

RESULT 15
 AAV26082/C
 ID AAV26082 standard; CDNA; 3997 BP.

XX AAV26082;

XX 07-JUN-1999 (first entry)

XX Tomato pest resistance M1 gene (copy 1).

XX Pest resistance; nematode resistance; disease resistance; M1 gene;
 KW tomato; transgenic plant; crop protection; biological control; ss.

XX Lycopersicon esculentum.

XX Key Location/Qualifiers
 FH CDS 85..3852
 FT /*tag= a

XX WO9815171-A1.

XX 16-APR-1998.

XX 09-OCT-1997; 97WO-US18802.

XX 10-OCT-1996; 96US-0028191.

XX (REGC) UNIV CALIFORNIA.

XX Bodeau J, Kaloshian I, Milligan S, Williamson VM;

XX yaghoobi J;

XX WPI: 1998-240529/21.

XX P-PSDB: AAW55974.

XX Nucleic acids encoding M1 polypeptide(s) conferring nematode
 PT resistance - useful to produce transgenic plants resistant to these
 PT and other pests, and in marker-aided selection to assess cultivars
 PT for resistance
 XX

PS Claim 1; Page 40-42; 55pp; English.

XX This is the nucleotide sequence of a cDNA clone encoding tomato M1
 CC polypeptide (see AAW55974), which confers resistance to nematodes
 CC such as Globodera, Heterodera and Meloidogyne spp., and other pests
 CC such as aphids. A genetic locus, M1, was localised by genetic

CC analysis to a region of the tomato genome of about 65 kb. DNA
 CC corresponding to this region was cloned into bacterial artificial
 CC chromosome vectors. Sequence analysis of a 52 kb BAC3 insert (see
 CC AAV26084) identified 3 open reading frames, one of which is probably
 CC a pseudogene. By RNA blot analysis, transcripts of approximately
 CC 4 kb corresponding to copy 1 and copy 2 were found in both
 CC resistant and susceptible tomato roots and in leaves of resistant but
 CC not susceptible plants. cDNA sequences corresponding to full-length
 CC transcripts of copy 1 (i.e. AAV26082) and copy 2 (see AAV26083) were
 CC obtained. The encoded polypeptides are 91% identical and contain
 CC structural features similar to known plant resistance genes (R
 CC genes) of the nucleotide binding site/leucine-rich repeat (NBS/LRR)
 CC family. A recombinant expression cassette comprising an Mi
 CC polynucleotide and an operably linked plant promoter can be used
 CC to enhance nematode resistance in plants especially tomatoes
 CC (claimed). Transgenic plants can also be constructed using a Mi
 CC promoter with heterologous genes. Mi polynucleotides are useful in
 CC marker-aided selection, providing a means of DNA fingerprinting
 CC cultivars and wild germplasm with respect to their disease
 CC resistance.

CC
 XX
 SQ Sequence 3997 BP: 1252 A; 664 C; 852 G; 1228 T; 1 other;

Query Match 1.6%; Score 18; DB 19; Length 3997;
 Best Local Similarity 100.0%; Pred. No. 44;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 299 CGTTGTGTTGAACCTT 316
 ||||||||||||||||
 DB 3370 CGTTGTGTTGAACCTT 3353

Search completed: February 26, 2002, 13:21:28
 Job time: 5604 sec